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## LIMESTONES AND COAL.

## CHEMICAL ANALYSES BY WILLIAM H. SAUNDERS.

The following quantitative chemical analyses are of two varieties of limestones from Junction City, and two varieties of coals, found along the line of the Kansas Pacific railroad, in Colorado. Stone No. 1 is the quality ordinarily used. No. 2 is from a new quarry lately opened. A decided difference will be noticed between the samples. No. 2 is free from pores, and although it has a very considerable amount of magnesia in its composition, it is my opinion, based on its compactness, the large amount of silicates present, and its slow solubility in acids, that it will prove more durable than the quality ordinarily used. The color, a light drab, is very fine:

LIMESTONES. No. 1.	No. 2.
Hygrometric moisture escaping at 212° F	•75
Carbonate of Lime88.85	67.23
Carbonate of Magnesia 4.15	17.45
Sesqui-oxide of Iron and Alumina, mostly Iron 1.20	2.05
Insoluble Silica and Silicates 5.10	12.20
Loss	.32
100.00	100.00
COAL NO. I.	
Water, hygrometric	11.00
Illuminating Gasper lb., 1.64 cub. ft.	
Quality	poor
Tarab	undant
Sulphur	1.50
Coke	52.00
Ash	6.18
Rate of Combustion in open air	nedium
or,	
Volatile matter	48.00
Fixed Carbon	
Ash	
	100.00

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No. 1 is a cannel coal. No. 2 is a fair lignite, distinguished for containing a very small per cent. of sulphur.